|            |                    |            |           |           |                 |              |          |                   |              |   |  |          |                 |          | 10       | 0/6        | 80           | ,85          | 52       |          |              |                        |            |          | ١N       | 11L      | LE       | R        | ΕT       | AL       |          |          |
|------------|--------------------|------------|-----------|-----------|-----------------|--------------|----------|-------------------|--------------|---|--|----------|-----------------|----------|----------|------------|--------------|--------------|----------|----------|--------------|------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|            |                    |            |           |           |                 |              |          |                   |              |   |  |          |                 | E        | Examiner |            |              |              |          |          |              |                        |            |          |          | Art Unit |          |          |          |          |          |          |
|            | Daniel S. Metzmaio |            |           |           |                 |              |          |                   |              |   |  |          |                 |          | maie     | er         |              | 1            | 71       |          |              |                        |            |          |          |          |          |          |          |          |          |          |
|            | Г                  | Т          |           |           |                 | 1            |          |                   |              |   | <u> </u>   |          |                 |          | - 4      | $\neg$     | ı            | _            |          |          |              |                        | ì          |          | _        |          |          |          |          | $\neg$   |          |          |
|            | √                  | √ Rejected |           |           |                 |              |          | - (Through numers |              |   |  |          |                 | aı)<br>  |          | N Non-Elec |              |              |          |          | ted          |                        |            | Appeal   |          |          |          |          |          |          |          |          |
|            | =                  | Ĺ          | Allowed   |           |                 |              |          | ÷                 | ÷ Restricted |   |  |          |                 |          |          |            | 1            | Interference |          |          |              |                        | 0          |          | Objected |          |          |          |          |          |          |          |
| Claim Date |                    |            |           |           |                 |              | Claim    |                   |              |   |  |          | -               | D        | Date (   |            |              |              |          |          | aim          | Date                   |            |          |          |          | <u> </u> |          |          | $\neg$   |          |          |
|            | <u>8</u>           |            |           |           |                 |              |          |                   |              |   |  | ā        | Π               |          |          |            |              |              |          |          |              |                        | a          |          |          |          |          |          |          |          |          |          |
| Final      | 10/12/05           |            |           |           |                 |              |          |                   |              |   | Final  | Original |                 |          |          |            |              |              |          |          |              | Final                  | Original   |          |          |          |          |          |          |          |          |          |
| 1          |                    |            |           |           |                 |              |          |                   |              | Į |  | 51       |                 |          |          | 耳          | $\Box$       |              |          |          |              |                        | 101        |          |          |          |          |          |          |          |          |          |
| 2          |                    |            | -         | ├-        |                 | _            | ⊢        | Н                 | _            |   | <u> </u>   | 52       | <b>├</b>        | Ш        | $\sqcup$ | _          | _            | -            | _        |          | 4            | $\vdash$               | 102        |          | $\perp$  |          | <u> </u> |          | oxdot    | Ш        |          | _        |
| 3          | _                  | _          | ┿         | ┝         | ╁               | ┢            | $\vdash$ | Н                 | $\dashv$     |   |  | 53<br>54 | ╁               | Н        |          | $\dashv$   | ┥            | $\dashv$     | $\dashv$ | $\dashv$ | -            | $\vdash$               | 103<br>104 |          |          |          | ┢        | $\vdash$ | -        | $\dashv$ |          |          |
| 5          | _                  | -          | +         | H         | $\vdash$        | $\vdash$     | ╁╴       | Н                 |              |   | <b>-</b>   | 55       | <del> </del>    | H        |          | 十          | ┪            | $\dashv$     | ᅱ        | -+       | $\dashv$     | $\vdash$               | 105        | $\vdash$ | Н        |          | ┢        | H        | $\vdash$ | -        | $\dashv$ | $\dashv$ |
| 6          |                    | _          | $\dagger$ |           |                 |              |          |                   |              |   |  | 56       |                 |          |          | 十          | 7            | 7            | $\dashv$ | $\neg$   | $\dashv$     |                        | 106        |          |          |          | ┢        | H        | H        | H        |          | _        |
| 7          | _                  |            |           |           |                 |              |          |                   |              |   |  | 57       |                 |          |          |            |              |              |          |          |              |                        | 107        |          |          |          |          |          |          |          |          |          |
| 8          | _                  |            |           | <u> </u>  |                 | L.           | ┖        | Ш                 |              |   |  | 58       |                 |          |          | $\perp$    |              |              |          |          |              |                        | 108        |          |          |          |          |          |          |          | $\Box$   |          |
| 9          |                    |            | +         | <u> </u>  | ├               | ⊢            | ⊢        | Н                 | _            |   |  | 59       |                 |          |          | 4          | 4            | -            | _        | _        | _            |                        | 109        |          |          | _        | <u> </u> |          |          | $\Box$   | 4        | _        |
| 10         | _                  |            | ╁         | ┝         | ├-              | ⊢            | $\vdash$ | Н                 |              |   | <u> </u>   | 60<br>61 | H               | Н        | $\dashv$ | $\dashv$   | -            | $\dashv$     | $\dashv$ | $\dashv$ |              | -                      | 110<br>111 |          | Н        |          | -        | H        | Н        | $\dashv$ | $\dashv$ | <b>⊣</b> |
| 1          |                    |            | +         | $\vdash$  | $\vdash$        | ┢            | H        | Н                 |              |   |  | 62       |                 | Н        | $\dashv$ | -          | ┪            | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$     | $\vdash$               | 112        | -        | -        |          | $\vdash$ |          | H        | -        | $\dashv$ | $\dashv$ |
| 1:         |                    |            | $\top$    | _         | 1               | $\vdash$     | $\vdash$ | М                 | $\neg$       |   |  | 63       | $\vdash$        | H        | _        | +          | 1            |              | $\dashv$ | $\dashv$ | _            | H                      | 113        | Н        | -        | _        | H        | _        |          | $\dashv$ | -        | -        |
| 14         | 4 N                |            |           |           |                 |              |          |                   |              |   |  | 64       |                 |          |          |            |              |              |          | $\neg$   |              |                        | 114        |          |          |          |          |          |          | $\Box$   | 寸        |          |
| 1:         |                    |            | $\perp$   |           |                 |              | _        |                   |              |   |  | 65       |                 |          |          |            |              |              | $\Box$   | $\Box$   |              |                        | 115        |          |          |          |          |          |          |          |          |          |
| 10         |                    |            | -         | <u> </u>  | ╙               | <u> </u>     | 1_       | Ш                 | _            |   |  | 66       | _               | Щ        | $\perp$  | 4          | 4            | _            | 4        | $\dashv$ | _            |                        | 116        |          |          |          | L_       |          |          | ·        | _        |          |
| , 18       |                    |            | +-        | ⊢         |                 | _            | ├        | Н                 | $\dashv$     |   |  | 67<br>68 | ⊢               | Ш        | $\dashv$ | $\dashv$   | 4            |              | _        |          |              |                        | 117        | Ш        | -        |          |          | <u> </u> |          |          | -        | _        |
| , 18       |                    |            | +         | -         | -               | -            | 1        | Н                 | -            |   | ├  | 69       | ┢               | Н        | $\dashv$ | $\dashv$   | $\dashv$     | $\dashv$     | $\dashv$ | -        | $\dashv$     |                        | 118<br>119 | Н        | Н        |          | H        | H        | -        | $\dashv$ |          |          |
| 20         |                    |            | +         | $\vdash$  | $\vdash$        | $\vdash$     | +-       | $\vdash$          | $\dashv$     |   | <del>                                     </del> | 70       | ╁               | H        |          | +          | +            | ╛            | $\dashv$ | $\dashv$ | $\dashv$     |                        | 120        |          | -        |          | ╌        | $\vdash$ |          | $\vdash$ | -        |          |
| 2.         | 1 √                |            |           |           |                 |              | T        | П                 | ٦            |   |  | 71       |                 | П        |          | T          |              | T            |          | 1        |              |                        | 121        |          |          |          |          | $\vdash$ |          | $\Box$   | $\neg$   | $\dashv$ |
| 22         |                    |            |           |           |                 |              |          |                   |              |   |  | 72       |                 |          |          |            |              |              |          |          |              |                        | 122        |          |          |          |          |          |          |          |          |          |
| 23         |                    |            | $\perp$   | <u> </u>  |                 | L            | <u> </u> | Ш                 | 4            |   |  | 73       | _               | Ш        |          | 4          | 4            | $\dashv$     | 4        | 4        | _            | <u> </u>               | 123        |          |          |          |          |          |          |          | _        | _        |
| 24         |                    | ╀          |           | <u> </u>  | Н               | <del> </del> | ┢        | Н                 | -            |   |  | 74<br>75 | _               | Н        | -        | +          | 4            | $\dashv$     | _        | -        |              |                        | 124        |          |          |          | _        | _        |          |          | $\dashv$ | _        |
| 26         |                    | ╁╌         | ╁         | $\vdash$  | $\vdash$        | ┝            | ┝        | $\vdash$          | ᅱ            |   |  | 76       | Н               |          |          | $\dashv$   | -            | $\dashv$     | $\dashv$ | $\dashv$ | -            |                        | 125<br>126 |          | -        |          | -        | -        | $\vdash$ |          | $\dashv$ | $\dashv$ |
| 27         |                    | t          | T         |           | Н               | ┝            | ╁╾       | Н                 | $\dashv$     |   |  | 77       | H               | $\dashv$ | $\dashv$ | -          | $\dashv$     | _            | $\dashv$ | $\dashv$ | $\dashv$     | $\vdash$               | 127        | Н        | $\dashv$ | _        |          |          | -        | $\dashv$ | -+       | $\dashv$ |
| 28         |                    | T          |           |           |                 |              | 1        |                   | $\exists$    |   |  | 78       | -               |          | $\neg$   | 十          | ┪            | 寸            | 7        | $\dashv$ | -            |                        | 128        |          | $\dashv$ |          |          |          |          | $\dashv$ | +        | _        |
| 29         | 9                  |            |           |           |                 |              |          |                   |              |   |  | 79       |                 |          |          |            |              |              |          |          |              |                        | 129        |          |          |          |          |          |          |          |          |          |
| 30         |                    | L          | 1         |           | Ш               |              | <u> </u> |                   |              |   | <u> </u>   | 80       | Ш               |          | 4        | $\perp$    | $\perp$      |              | $\perp$  | $\perp$  |              |                        | 130        |          | $\Box$   |          |          |          |          |          |          |          |
| 31         |                    | ╀          | +         |           | $\vdash$        |              | ┢        | $\dashv$          | -            |   |  | 81       | Н               | $\dashv$ |          | 4          | 4            | $\dashv$     | $\dashv$ |          |              | <b></b>                | 131        |          | _        |          |          |          |          | _        | 4        | _        |
| 33         |                    | ╁          | ╁┈        | -         | Н               | Н            | -        | $\vdash$          | $\dashv$     |   | <b></b> -  | 82<br>83 | -               |          | $\dashv$ | +          | +            | $\dashv$     | -        | $\dashv$ |              | $\vdash$               | 132<br>133 | $\dashv$ |          | _        |          |          | -        | -+       | -        |          |
| 34         |                    | ┢          | +         |           | Н               |              |          | $\vdash$          | ᅥ            |   |  | 84       | Н               | $\dashv$ | -        | $\dashv$   | ┪            | +            | $\dashv$ | $\dashv$ | $\dashv$     | $\vdash$               | 134        | -        | ┰        | -        | -        | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| 35         |                    | ✝          | $\top$    |           | H               | _            | t        | $\dashv$          | ┪            |   |  | 85       | Н               | $\neg$   | _        |            | 7            | 十            | $\dashv$ | $\dashv$ | -            |                        | 135        |          | ᅥ        | _        |          |          | $\dashv$ | -+       | $\dashv$ | $\dashv$ |
| 36         | 3                  |            |           |           |                 |              |          |                   |              |   |  | 86       |                 |          |          | T          | T            | ヿ            | T        |          | 7            |                        | 136        | $\neg$   | 一        |          |          |          |          | 寸        | $\neg$   | 7        |
| 37         |                    |            |           |           |                 |              |          |                   |              |   |  | 87       |                 |          | $\Box$   |            |              |              |          |          |              |                        | 137        |          |          |          |          |          |          |          |          |          |
| 38         |                    | L          | 11        |           | Ш               |              |          | _                 |              |   |  | 88       |                 | _        | $\perp$  | _          | 4            | $\perp$      | 4        | 4        | _            | Ш                      | 138        |          |          |          |          |          |          |          |          |          |
| 39         |                    | $\vdash$   | $\vdash$  |           | $\vdash \vdash$ |              | $\vdash$ |                   |              |   |  | 89       | $\sqcup$        |          | _        |            | 4            | $\dashv$     | 4        | $\dashv$ | _            | $\sqcup$               | 139        |          | 4        | 4        | Ш        | Ш        |          | _        | 4        | _        |
| 40         |                    | $\vdash$   | +         | Н         | $\vdash \vdash$ | _            | -        | $\dashv$          | $\dashv$     |   |  | 90<br>91 | $\vdash \vdash$ | -        | $\dashv$ | +          | +            | +            | +        | -+       | <b></b>  .   | $\vdash \vdash \vdash$ | 140        | _        | 4        | 4        | Н        | Н        | _        | $\dashv$ | _        | _        |
| 42         |                    | $\vdash$   | $\forall$ |           | ┝╌┤             |              | $\vdash$ |                   | $\dashv$     |   |  | 92       | $\vdash \vdash$ | -        | $\dashv$ |            | +            | +            | $\dashv$ | $\dashv$ | <b>⊣</b> , , |                        | 141<br>142 | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ | Н        |          | $\dashv$ | +        | $\dashv$ |
| 43         |                    | T          | †         | $\exists$ | $\vdash$        | Н            | $\vdash$ | $\dashv$          | $\dashv$     |   |  | 93       | -               | ᅱ        | $\dashv$ | $\dashv$   | +            | 十            | $\dashv$ | 十        | +            | $\vdash$               | 143        | $\dashv$ | $\dashv$ |          | $\vdash$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |
| 44         | 1                  |            |           |           |                 |              |          |                   | _            |   |  | 94       |                 |          |          | $\top$     | 1            | $\top$       | +        | 十        | - ·          |                        | 144        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\dashv$ | $\dashv$ | $\top$   | 7        |
| 45         |                    |            | П         |           |                 |              |          |                   |              |   |  | 95       |                 |          |          |            | □            |              | I        | 丁        |              |                        | 145        |          |          |          |          |          |          |          |          |          |
| 46         |                    |            | $\Box$    |           | Ш               | $\Box$       |          |                   | $\Box$       |   |  | 96       | П               |          | $\Box$   | $\bot$     | $\perp$      | I            | $\Box$   | $\Box$   |              |                        | 146        |          |          |          |          |          |          |          |          |          |
| 47         |                    | $\vdash$   | $\sqcup$  | _         | Щ               |              | L        |                   | 4            |   | L  | 97       | $\sqcup$        | _        | 4        | _          | $\downarrow$ | $\downarrow$ | 4        | _        | 4            | otacluster             | 147        | $\Box$   | _[       | _        |          | $\Box$   |          |          | [        | _        |
| 48         |                    | _          |           | _         | $\sqcup$        | _            | Щ        | 4                 | _            |   |  | 98       | Ш               | _        | 4        | $\perp$    | 4            | 4            | 4        | 4        |              | $\sqcup \downarrow$    | 148        | _        | _        |          |          |          |          | $\perp$  | $\perp$  | _        |

Application/Control No.

**Index of Claims** 

Applicant(s)/Patent under Reexamination